(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

(10) International Publication Number WO 2005/036961 A3

- (51) International Patent Classification7: A61K 31/44, 31/445, 31/47, C07D 211/48, 451/02, 451/04, 451/06
- (21) International Application Number:

PCT/US2004/032720

- (22) International Filing Date: 4 October 2004 (04.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/510,568

10 October 2003 (10.10.2003) US

- 60/609,533 13 September 2004 (13.09.2004) US
- (71) Applicant (for all designated States except US): FMC CORPORATION [US/US]; 1735 Market Street, Philadelphia, PA 19103 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): THEODORIDIS, George [US/US]; 45 Monroe Lane, Princeton, NJ 08540 (US). ROSEN, David [US/US]; 31 Paul Avenue, Kendall Park, NJ 08824 (US). ZHANG, Shunxiang [CN/US]; 64 Bradford Lane, Plainsboro, NJ 08536 (US). YEAGER, Walter, H. [US/US]; 274 Hickory Road, Yardley, PA 19067 (US). HENRIE II, Robert, N. [US/US]; 41 Washington Crossing-Pennington Road, Pennington, NJ 08534 (US). AHMED, Syed, Z. [US/US]; 286 Westcott Blvd., Pennington, NJ 08534 (US). MEN, Hongbin [CN/US]; 12 Twin Oaks Drive, Edison, NJ 08820 (US). DONOVAN, Stephen, F. [US/US]; P.O. Box 121, Revere, PA 18953 (US).

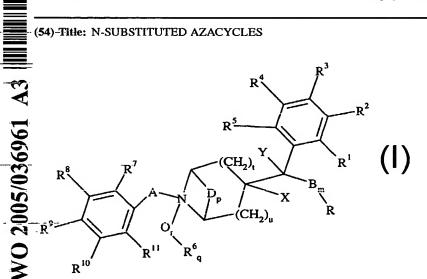
- (74) Agents: SHEEHAN, John, M. et al.; FMC Corporation, 1735 Market Street, Philadelphia, PA 19103 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 11 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54)-Title: N-SUBSTITUTED AZACYCLES



(57) Abstract: N-substituted azacycle derivative compounds represented by formula (I): wherein m, q, r, t and u are independently selected from 0 or 1; and p is 0, 1, 2, or 3; and A, B, D, X, Y, R, R', R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , R^9 , R^{10} and R^{11} are fully described herein. The compounds being particularly useful in compositions comprising an insecticidally effective amount of at least one compound of formula (I), and an insecticidally compatible carrier are also disclosed; along with methods of controlling insects comprising applying said compositions to a locus where insects are present or are expected to be present.